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## Iowa Department of Transportation

800 LINCOLN WAY  
AMES, IOWA 50010FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARYFEDERAL COMMUNICATIONS COMMISSION  
WASHINGTON, D.C. 20554

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FEB 18 1993

FCC MAIL ROOM

PR Docket No. 92-235

In the Matter of )

Replacement of Part 90 by Part 88 to )  
 Revise the Private Land Mobile Radio )  
 Services and Modify the Policies )  
 Governing Them )

To the Commission:

These changes are indeed needed. I commend the commission on this bold endeavor. The changes may be painful at times but they are necessary. I would like to comment on the power and antenna height limits 88.429 table C-3. I request that Public Safety Licensees that can establish an exclusive use overlay for a large area such as a State etc. be Grandfathered at present authorizations, provided their 1 micro-volt contour remains within their area of exclusivity, consistently. In Iowa two such systems exist:

A Highway Maintenance System, installed (1963) and operated by the Iowa Department of Transportation, supporting 3,000 mobile and portable units engaged in regional snow removal and other highway maintenance activities.

A Police System, installed and maintained by the Iowa Department of Public Safety, supporting all law enforcement activities in the state. Including city police and all county sheriff's departments as well as state agencies, Iowa Highway Patrol, Iowa DOT enforcement officers, Iowa department of Criminal Investigation, Iowa DNR enforcement, Department of Corrections etc. A map is enclosed to show the basic



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These measurements have a much higher degree of day to day reliability than any other known method of determination.

The single most dominating factor in designing these two systems was maximum effect for minimum tax dollars spent. Inflation and sophistication of hardware will surely shrink dwindling tax dollars even more in the future. Those of us who try to cover rural areas must be allowed to cover an area with one repeater rather than three or four, to achieve frequency reuse, when we are the only one reusing the frequency in that area.

RESPECTFULLY SUBMITTED

Ted Savely (515) 239-1595  
Electronic Engineering Technician  
Iowa Department of Transportation

Iowa AASHTO Frequency Coordinator

Member APCO (Iowa Chapter)

Member Iowa LEATAC  
(Law Enforcement Administrators Telecommunications Advisory Committee)

Enclosures: TWO MAPS (IOWA SYSTEMS)



Iowa Department  
of Transportation

## Maintenance Two-way Radio Channel & Tone

### Mobile Channels



### Tone

A - 192.8 - 7A  
B - 167.9 - 6Z  
C - 127.3 - 3A  
D - 156.7 - 5A  
E - 179.9 - 6B  
F - 110.9 - 2Z  
G - 103.5 - 1A  
X - 146.2 - 4B

Check with local maintenance shop for  
temporary changes required by transition!  
Use G tone for construction.  
X tone translates to G tone

Jan. 1992

## "10" Signals for Iowa DOT Radio System

### Procedure and Operation Details

- 10- 1 Unable to copy
- 10- 2 Signals good
- 10- 4 Message received—"O.K."
- 10- 6 Busy, Standby
- 10- 7 Out of Service (*or vehicle*)
- 10- 8 Back in Service
- 10- 9 Repeat
- 10-12 Visitors or officials present
- 10-13 Weather or road conditions
- 10-14 Correct time
- 10-17 Urgent, rush present details
- 10-20 What is your location
- 10-22 Report in person to \_\_\_\_\_
- 10-33 "EMERGENCY" Clear the air
- 10-49 Major breakdown of vehicle
- 10-87 Pay checks out

### Accident Handling

- 10-50 Accident
- 10-51 Wrecker needed
- 10-52 Ambulance needed
- 10-58 Fatal accident FIRE
- 10-70 Fire (*location*)

# IOWA DEPARTMENT OF PUBLIC SAFETY – DIVISION OF COMMUNICATIONS

THE AREAS SHOWN ON THIS MAP ARE AN APPROXIMATION OF THE ACTUAL RADIO COVERAGE

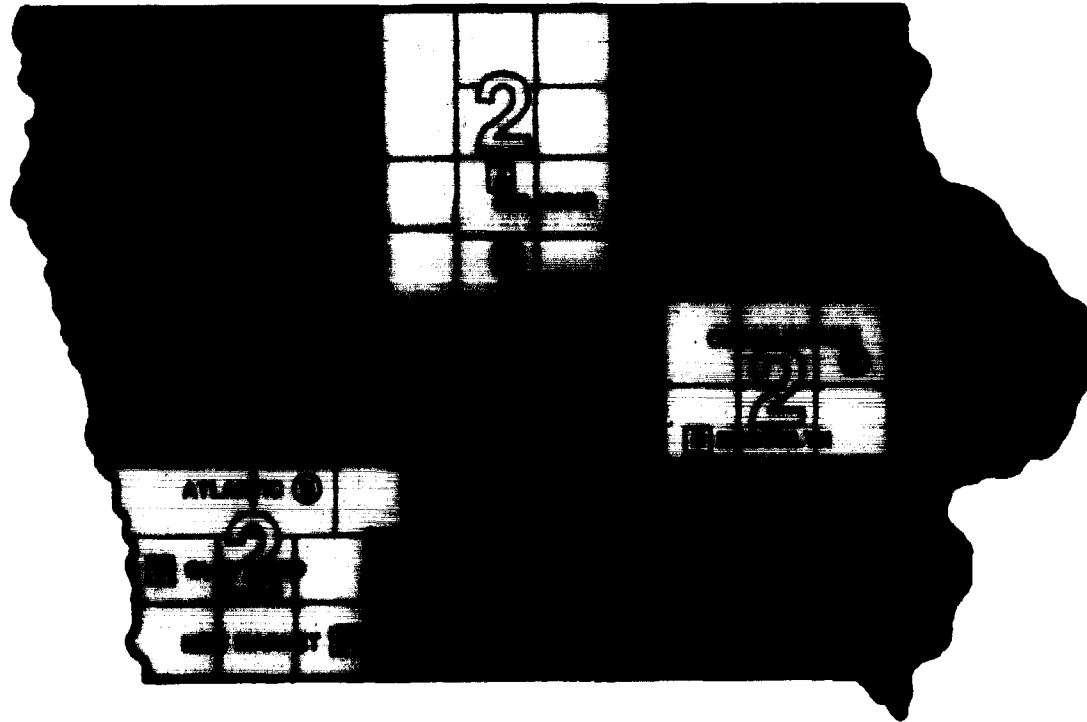
## Communications Centers

Atlantic 712-769-2395  
Cedar Falls 319-277-4761  
Cedar Rapids 319-396-4414  
Des Moines 515-281-3561  
Fairfield 515-472-5001  
Storm Lake 712-732-1341

## Technical Facilities

Belmond 515-444-3050  
Cedar Rapids 319-396-1936  
Des Moines 515-281-3175

Iowa State Patrol  
**EMERGENCY LINE**  
1 (800) 525-5555



## VHF DUPLEX FREQUENCIES

BASE TX MOBILE RX		MOBILE TX BASE RX
<b>AREA ONE</b>		
155.640	DPS/BASE	154.650
155.790	LEA	154.770



<b>AREA THREE</b>		
155.565	DPS/BASE	154.665
155.700	LEA	154.800

## VHF SIMPLEX FREQUENCIES

CAR	AIR	AID	CIS
155.430	155.505	155.475	155.445

## TONE CODES

TONE	HZ	TONE	HZ
A	127.3	D	192.8
B	146.2	E	225.7
C	167.9		

## LEGEND

- COMMUNICATIONS CENTER/REPEATER
- REMOTE REPEATER

8/92

- 10-1 Unable to copy - change location
- 10-2 Signal good
- 10-3 Stop transmitting
- 10-4 Acknowledgement
- 10-5 Relay
- 10-6 Busy - stand by unless urgent
- 10-7 Out of service (give location and/or telephone number)
- 10-8 In service
- 10-9 Repeat
- 10-10 Fight in progress
- 10-11 Dog case
- 10-12 Stand by (stop)
- 10-13 Road report
- 10-14 Report of prowler
- 10-15 Civil disturbance
- 10-16 Domestic trouble
- 10-17 Meet complainant
- 10-18 Complete assignment
- 10-19 Return to \_\_\_\_\_
- 10-20 Location
- 10-21 Call \_\_\_\_\_ by telephone
- 10-22 Disregard
- 10-23 Arrived at scene
- 10-24 Assignment completed
- 10-25 Report in person to (meet) \_\_\_\_\_
- 10-26 **Detaining a subject; expedite**
- 10-27 Driver license information
  - D. L. 1 - To check for valid license
  - D. L. 2 - To check for previous O.W.I convictions
  - D. L. 3 - To check for age or description or serial number, etc.
  - D. L. 4 - To check complete driving record
- 10-28 Vehicle registration information
- 10-29 Check records for wanted/stolen
- 10-30 Illegal use of radio
- 10-31 **Crime in progress**
- 10-32 **Person with gun**
- 10-33 **EMERGENCY**
- 10-34 Riot
- 10-35 **Major crime alert**
- 10-36 Correct time
- 10-37 Investigate suspicious vehicle
- 10-38 Stopping suspicious vehicle (Provide comm. center location and description)
- 10-39 Urgent – Use light and siren
- 10-40 Silent run – No light or siren
- 10-41 Beginning tour of duty
- 10-42 Ending tour of duty
- 10-43 Information
- 10-44 Request permission to leave patrol \_\_\_\_\_ for \_\_\_\_\_
- 10-45 Animal carcass in \_\_\_\_\_ lane at \_\_\_\_\_
- 10-46 Assist motorist
- 10-47 Emergency road repairs needed
- 10-48 Traffic standard needs repair
- 10-49 Traffic light out
- 10-50 **Accident – F, PI, PD**
- 10-51 **Wrecker needed**
- 10-52 **Ambulance needed**
- 10-53 Road blocked
- 10-54 Livestock on highway
- 10-55 **Intoxicated driver**
- 10-56 Intoxicated pedestrian
- 10-57 Hit and run – F, PI, PD
- 10-58 Direct traffic
- 10-59 Convoy or escort
- 10-60 Squad in vicinity
- 10-61 Personnel in area
- 10-62 Reply to message
- 10-63 Prepare to make written copy
- 10-64 Message for local delivery
- 10-65 Net message assignment
- 10-66 Message cancellation
- 10-67 Clear to read net message
- 10-68 Dispatch information
- 10-69 Message received
- 10-70 Fire alarm
- 10-71 Advise nature of fire (size, type, and contents of building)
- 10-72 Report progress on fire
- 10-73 Smoke report
- 10-74 Negative
- 10-75 In contact with
- 10-76 En route
- 10-77 ETA (Estimated Time of Arrival)
- 10-78 **Need assistance**
- 10-79 Notify medical examiner
- 10-80 **Pursuit in progress**
- 10-81 In-view patrol (give location)
- 10-82 Reserve lodging
- 10-83 Welfare check
- 10-84 If meeting \_\_\_\_\_ advise ETA
- 10-85 Will be late
- 10-86 Request for overtime authorization
- 10-87 Pick up checks for distribution
- 10-88 Advise present telephone of \_\_\_\_\_
- 10-89 Bomb threat
- 10-90 **Bank alarm**
- 10-91 Unnecessary use of radio
- 10-92 Improperly parked vehicle
- 10-93 Blockade
- 10-94 Drag racing
- 10-95 Prisoner/subject in custody (mileage)
- 10-96 Mental subject
- 10-97 Check (test) signal
- 10-98 Prison or jail break
- 10-99 **Records indicate wanted or stolen**
- 10-150 Disable repeater
- 10-200 Request Backup
- 10-250 Request K-9 unit